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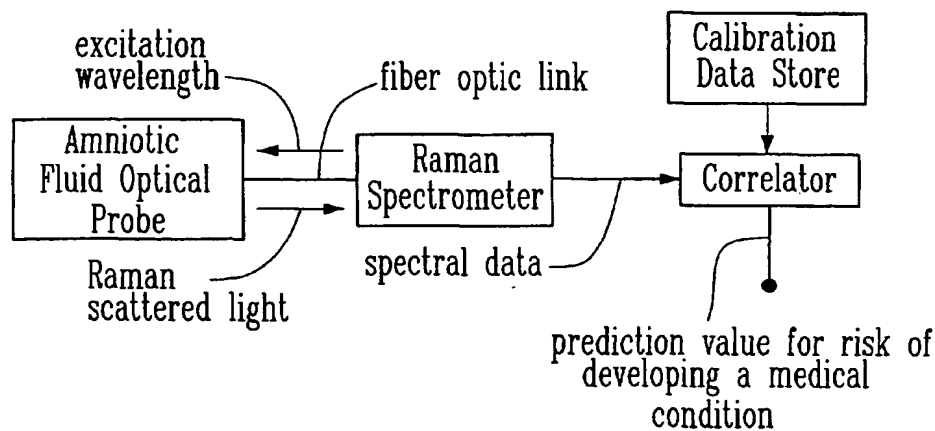
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(54) Title: METHOD AND APPARATUS FOR ANALYZING AMNIOTIC FLUID



(57) Abstract: Methods and spectra for monitoring fetal growth and predicting birth weight of an infant prior to birth are provided wherein one or more selected biological markers are measured in a sample of amniotic fluid obtained from a pregnant woman. Levels of the selected biochemical markers and/or spectra correlate with one or more medical conditions, such as fetal growth and birth weight of the infant, and gestational diabetes. A measurement probe for in situ measurement can be used safely and repeatedly. Monitoring and/or treatment of maternal and fetal health is also provided.